

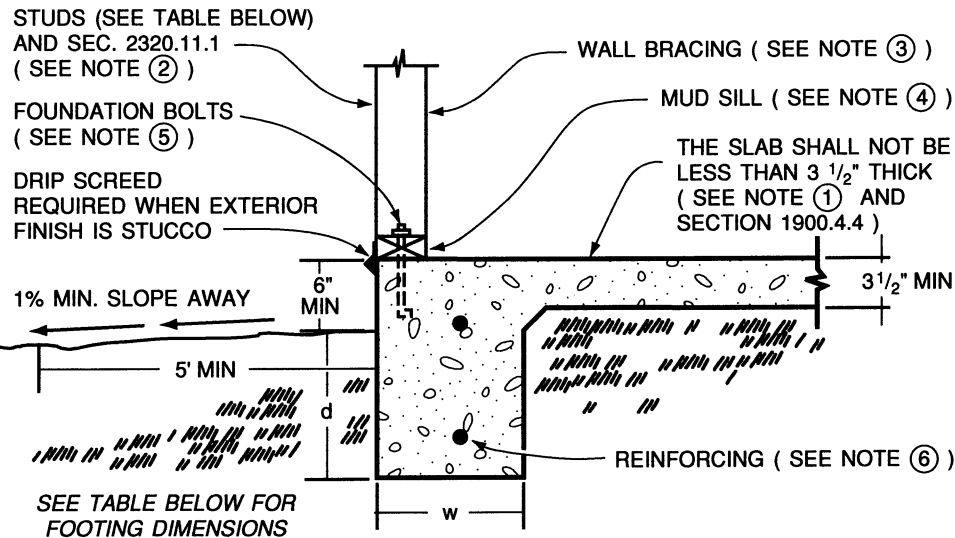


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**TYPICAL SLAB FOOTING SYSTEM FOR NON EXPANSIVE  
SOIL DATA BASED ON 1997 UNIFORM BUILDING CODE**



**FOOTING DIMENSIONS**

NUMBER OF STORIES	WIDTH OF FOOTING (INCHES)	DEPTH OF FOUNDATION BELOW NAT. OR FINISH GRADE (INCHES)
	w	d
1	12	12
2	15	18
3	18	24

**STUD SIZING**

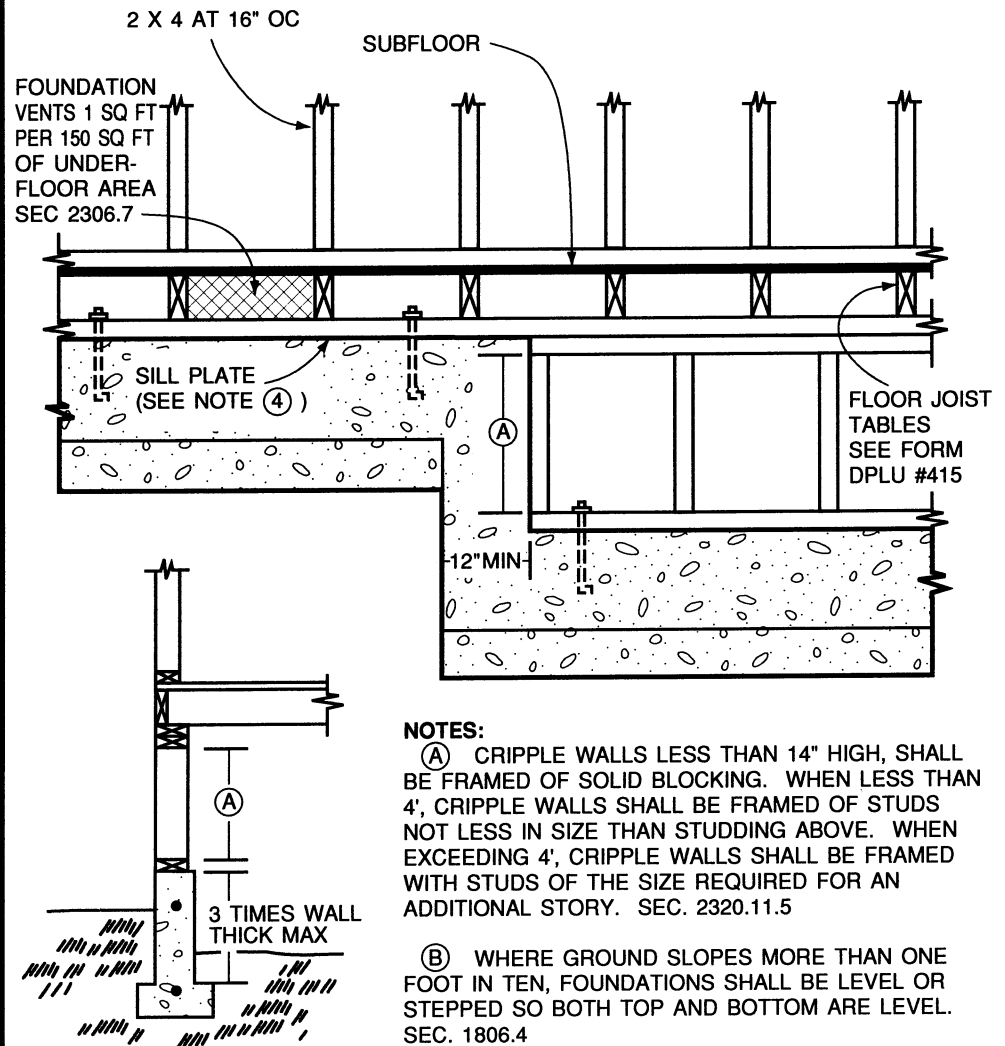
BUILD HT IN STORIES	STUD SIZE (INCHES)	SPACING (INCHES)	MAX. STUD LENGTH (FT)	
			BEARING WALL	NON BRNG WALL
1	2 X 4	16	10	14
2	2 X 4	16	10	14
3	2 X 6 3 X 4	16	10 10	20 14

**NOTES:**

- ① CONCRETE MUST REACH A STRENGTH OF 2,500 PSI WITHIN 28 DAYS. ( SEC. 1921.2.4 & 1922.2.4 )
- ② STUDS MUST BE OF "STUD", "STANDARD", OR "CONSTRUCTION" GRADE OR BETTER.
- ③ SEE SEC. 2320.5 & 2320.11 FOR WALL BRACING REQUIREMENTS.
- ④ MUDSILL SHALL BE PRESSURE TREATED DOUGLAS FIR OR FOUNDATION GRADE REDWOOD. ( SECTION 2306.4 )
- ⑤ 5/8" X 10" FOUNDATION BOLTS 6" O.C. AND 12" FROM CORNERS FOR SINGLE STORY CONSTRUCTION. BOLTS MUST HAVE 2" X 2" X 3/16" PLATE WASHERS. (SEE SEC. 1806.6)
- ⑥ FOUNDATIONS SHALL BE PROVIDED WITH A MINIMUM OF ONE NO. 4 BAR AT THE TOP AND BOTTOM OF THE FOOTING.

(THE ABOVE DETAIL IS NOT INTENDED FOR EXPANSIVE SOIL NOR DOES IT REPLACE ENGINEER DESIGNED SYSTEMS)

**STEPPED FOUNDATION WITH CRIPPLE WALLS**

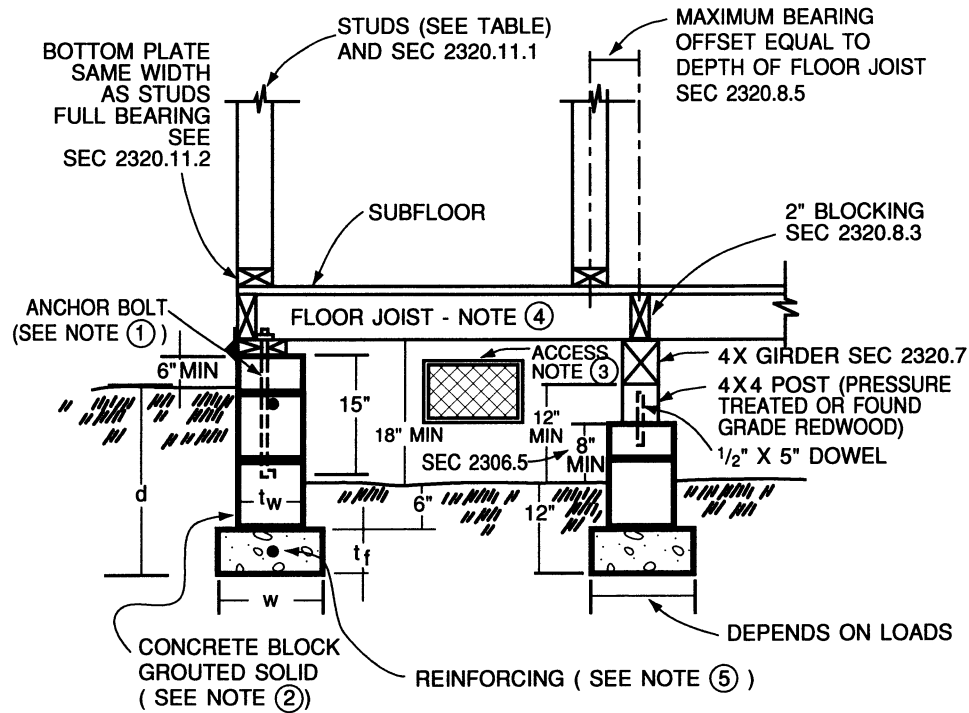


**NOTES:**

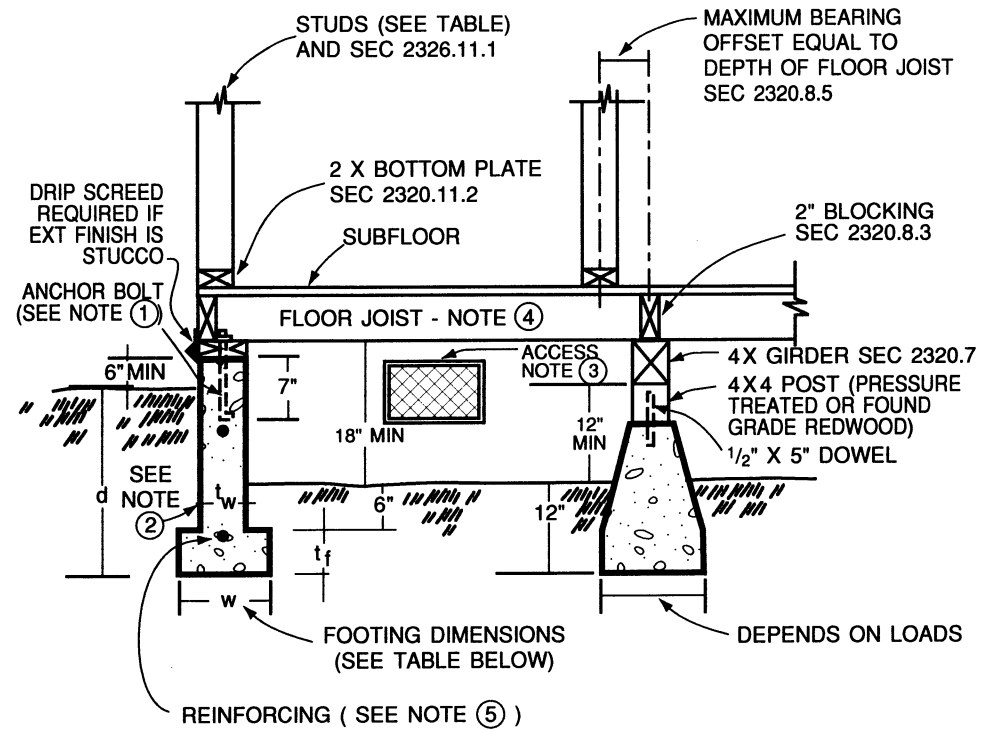
Ⓐ CRIPPLE WALLS LESS THAN 14" HIGH, SHALL BE FRAMED OF SOLID BLOCKING. WHEN LESS THAN 4', CRIPPLE WALLS SHALL BE FRAMED OF STUDS NOT LESS IN SIZE THAN STUDDING ABOVE. WHEN EXCEEDING 4', CRIPPLE WALLS SHALL BE FRAMED WITH STUDS OF THE SIZE REQUIRED FOR AN ADDITIONAL STORY. SEC. 2320.11.5

Ⓑ WHERE GROUND SLOPES MORE THAN ONE FOOT IN TEN, FOUNDATIONS SHALL BE LEVEL OR STEPPED SO BOTH TOP AND BOTTOM ARE LEVEL. SEC. 1806.4

## CONCRETE BLOCK AND PIER FOUNDATION



## CONCRETE AND PIER FOUNDATION



### NOTES:

- ① 5/8" ANCHOR BOLTS 6'-0" O.C. MAX AND 12" FROM CORNERS AND JOINTS. ALL FOUNDATION BOLTS MUST HAVE 2" X 2" 3/16" PLATE WASHERS. SEE SEC 1806.6
- ② WALL HEIGHT SHALL NOT EXCEED SIX TIMES THE WIDTH ( $t_w$ ) WHEN MASONRY IS USED. ALL CELLS ARE TO BE GROUTED SOLID.
- ③ ACCESS 18" X 24" SEC. 2306.3.
- ④ SEE FORM DPLU #415.
- ⑤ FOUNDATIONS WITH STEMWALLS SHALL BE PROVIDED WITH A MINIMUM OF ONE NO. 4 BAR AT THE TOP OF THE WALL AND AT THE BOTTOM OF THE FOOTING.

### FOOTING DIMENSIONS

NUMBER OF STORIES	$t_w$		$w$	$t_f$	$d$
	THICKNESS OF FOUNDATION WALL (INCHES)		WIDTH OF FOOTING (INCHES)	THICKNESS OF FOOTING (INCHES)	DEPTH OF FOUNDATION BELOW NAT. OR FINISH GRADE (INCHES)
	CONCRETE	UNIT MASONRY			
1	6	6	12	6	12
2	8	8	15	7	18
3	10	10	18	8	24